THE LIMIT SET OF THE RENORMALIZATION OPERATOR FOR MULTIMODAL MAPS

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Abstract：Deep renormalizations of an infinitely renormalizable real analytic multimodal map are multimodal maps of type N for some positive integer N. Roughly speaking, multimodal maps of type N are compositions of N unimodal maps. In this talk, we will show the existence of the full renormalization horseshoe for multimodal maps of type N. Moreover, the renormalization operator is exponentially contracting along the hybrid leaves. As a consequence, any orbit of a real analytic multimodal map under the renormalization operator is asymptotic to the union of these horseshoes.